



Investigation of the Nonlinear Optical Response in Polymeric Azoester Systems

Submitted by Emmanuel Lemoine on Mon, 06/02/2014 - 18:19

Titre	Investigation of the Nonlinear Optical Response in Polymeric Azoester Systems
Type de publication	Communication
Type	Communication avec actes dans un congrès
Année	2011
Langue	Anglais
Date du colloque	26-30/06/2011
Titre du colloque	13th International Conference on Transparent Optical Networks ICTON 2011
Auteur	El Ouazzani, Hasnaa [1], Iliopoulos, Konstantinos [2], Krupka, Oksana [3], Smokal, Vitaliy [4], Sahraoui, Bouchta [5]
Pays	Suède
Editeur	IEEE
Ville	Stockholm
ISBN	978-1-4577-0880-0
Mots-clés	azo dyes [6], Disperse Red 1 (DR1) [7], fringes [8], Maker [9], Push-Pull [10], Second Harmonic Generation (SHG) [11], Third Harmonic Generation (THG) [12]
Résumé en anglais	The second and third-order nonlinear optical properties of novel push-pull azobenzene polymers have been investigated using 30 ps laser pulses at 1064 nm. The study of the chromophores has been done before and after corona poling and by employing different polarizations. Very strong nonlinear response, which was different for every investigated system has been found due to enhanced charge transfer within the molecules.
URL de la notice	http://okina.univ-angers.fr/publications/ua3124 [13]
DOI	10.1109/ICTON.2011.5970845 [14]
Lien vers le document en ligne	http://dx.doi.org/10.1109/ICTON.2011.5970845 [14]

Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=3112](http://okina.univ-angers.fr/publications?f[author]=3112)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=2818](http://okina.univ-angers.fr/publications?f[author]=2818)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=2668](http://okina.univ-angers.fr/publications?f[author]=2668)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=2997](http://okina.univ-angers.fr/publications?f[author]=2997)
- [5] <http://okina.univ-angers.fr/bouchta.sahraoui/publications>
- [6] [http://okina.univ-angers.fr/publications?f\[keyword\]=6842](http://okina.univ-angers.fr/publications?f[keyword]=6842)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=6843](http://okina.univ-angers.fr/publications?f[keyword]=6843)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=6837](http://okina.univ-angers.fr/publications?f[keyword]=6837)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=6840](http://okina.univ-angers.fr/publications?f[keyword]=6840)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=6841](http://okina.univ-angers.fr/publications?f[keyword]=6841)

- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=6838](http://okina.univ-angers.fr/publications?f[keyword]=6838)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=6839](http://okina.univ-angers.fr/publications?f[keyword]=6839)
- [13] <http://okina.univ-angers.fr/publications/ua3124>
- [14] <http://dx.doi.org/10.1109/ICTON.2011.5970845>

Publié sur *Okina* (<http://okina.univ-angers.fr>)